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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/506,078DATE: 03/08/2000
TIME: 15:24:39

Input Set: I506078.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

P.S

ENTERED

1 <110> APPLICANT: Pfizer Products Inc
2 <120> TITLE OF INVENTION: FUSION PROTEINS COMPRISING CARRIERS THAT CAN INDUCE A
3 DUAL IMMUNE RESPONSE
4 <130> FILE REFERENCE: PC10202A
5 <140> CURRENT APPLICATION NUMBER: US/09/506,078
6 <141> CURRENT FILING DATE: 2000-02-16
7 <150> EARLIER APPLICATION NUMBER: N/A
8 <151> EARLIER FILING DATE: 1999-02-17
9 <160> NUMBER OF SEQ ID NOS: 46
10 <170> SOFTWARE: PatentIn Ver. 2.1
11 <210> SEQ ID NO 1
12 <211> LENGTH: 33
13 <212> TYPE: DNA
14 <213> ORGANISM: Artificial Sequence
15 <220> FEATURE:
16 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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18 AND CLONING ENDS
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20 catggAACAC tggTCTTATG gtctgcgtcc ggg 33
21 <210> SEQ ID NO 2
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24 <213> ORGANISM: Artificial Sequence
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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32 <211> LENGTH: 36
33 <212> TYPE: DNA
34 <213> ORGANISM: Artificial Sequence
35 <220> FEATURE:
36 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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38 AND CLONING ENDS
39 <400> SEQUENCE: 3
40 gatctggAAC actggTCTTA tggTCTGCGT ccgggc 36
41 <210> SEQ ID NO 4
42 <211> LENGTH: 36
43 <212> TYPE: DNA
44 <213> ORGANISM: Artificial Sequence

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45 <220> FEATURE:
46 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
47 OLIGONUCLEOTIDE COMPRISING GNRH CODING SEQUENCE
48 AND CLONING ENDS
49 <400> SEQUENCE: 4
50 gatcgcccg acgcagacca taagaccagt gttcca 36
51 <210> SEQ ID NO 5
52 <211> LENGTH: 76
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
55 <220> FEATURE:
56 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
57 OLIGONUCLEOTIDE COMPRISING GNRH CODING SEQUENCE
58 AND CLONING ENDS
59 <400> SEQUENCE: 5
60 gatccatgga gcactggtca tatggtctgc gtccgggtga acattggagc tacggtctac 60
61 gccccgggtc catggc 76
62 <210> SEQ ID NO 6
63 <211> LENGTH: 76
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
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67 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
68 OLIGONUCLEOTIDE COMPRISING GNRH CODING SEQUENCE
69 AND CLONING ENDS
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71 tcgagccatg gacccggggc gtagaccgta gctccaatgt tcacccggac gcagaccata 60
72 tgaccagtgc tccatg 76
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74 <211> LENGTH: 71
75 <212> TYPE: DNA
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78 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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82 ggggaacact ggtcttatgg cttacggccg ggagagcatt ggagttacgg cctccgtcca 60
83 ggttccatgg c 71
84 <210> SEQ ID NO 8
85 <211> LENGTH: 75
86 <212> TYPE: DNA
87 <213> ORGANISM: Artificial Sequence
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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91 AND CLONING ENDS
92 <400> SEQUENCE: 8
93 tcgagccatg gaacctggac ggaggccgta actccaatgc tctccggcc gtaagccata 60
94 agaccagtgt tcccc 75

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95 <210> SEQ ID NO 9
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98 <213> ORGANISM: Artificial Sequence
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104 gatccagagc actggcata tggctgcgt ccgggtgaac attggagcta cggctacgc 60
105 cccggggatc c 71
106 <210> SEQ ID NO 10
107 <211> LENGTH: 71
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113 AND CLONING ENDS
114 <400> SEQUENCE: 10
115 tcgaggatcc cccgggcgt aaccgttagt ccaatgttca cccggacgca gaccatatga 60
116 ccagtgtct g 71
117 <210> SEQ ID NO 11
118 <211> LENGTH: 68
119 <212> TYPE: DNA
120 <213> ORGANISM: Artificial Sequence
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122 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
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124 AND CLONING ENDS
125 <400> SEQUENCE: 11
126 ggggaacact ggtcttatgg cttacggccg ggagagcatt ggagttacgg cctccgtcca 60
127 ggggatcc 68
128 <210> SEQ ID NO 12
129 <211> LENGTH: 72
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Description of Artificial Sequence: SYNTHETIC
134 OLIGONUCLEOTIDE COMPRISING GNRH CODING SEQUENCE
135 AND CLONING ENDS
136 <400> SEQUENCE: 12
137 tcgaggatcc cctggacgga ggccgttaact ccaatgtct cccggccgt aaccataaga 60
138 ccagtgttcc cc 72
139 <210> SEQ ID NO 13
140 <211> LENGTH: 10
141 <212> TYPE: PRT
142 <213> ORGANISM: GNRH AMINO ACID SEQUENCE
143 <400> SEQUENCE: 13
144 Glu His Trp Ser Tyr Gly Leu Arg Pro Gly

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145 1 5 10

146 <210> SEQ ID NO 14

147 <211> LENGTH: 328

148 <212> TYPE: DNA

149 <213> ORGANISM: Artificial Sequence

150 <220> FEATURE:

151 <223> OTHER INFORMATION: Description of Artificial Sequence: part of plasmid p9897-R

153 <400> SEQUENCE: 14

154 acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagttagcg cgcgtaatac 60

155 gactcactat agggcgaatt ggagctccac cgccgtggcg gccgccttag aactagtgga 120

156 tccagagcac tggcatatg gtctgcgtcc gggtaacat tggagctacg gtctacgccc 180

157 cggggAACAC tggcttatg gcttacggcc gggagagcat tggagttacg gcctccgtcc 240

158 aggttccatg ggctcgaggg ggggcccgtt acccagctt tgttccctt agtgagggtt 300

159 aattgcgcgc ttggcgtaat atggcat 328

160 <210> SEQ ID NO 15

161 <211> LENGTH: 40

162 <212> TYPE: PRT

163 <213> ORGANISM: Artificial Sequence

164 <220> FEATURE:

165 <223> OTHER INFORMATION: Description of Artificial Sequence: GnRH tetramer

166 <400> SEQUENCE: 15

167 Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Glu His Trp Ser Tyr Gly

168 1 5 10 15

169 Leu Arg Pro Gly Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Glu His

170 20 25 30

171 Trp Ser Tyr Gly Leu Arg Pro Gly

172 35 40

173 <210> SEQ ID NO 16

174 <211> LENGTH: 1259

175 <212> TYPE: DNA

176 <213> ORGANISM: Bovine herpesvirus 1

177 <220> FEATURE:

178 <221> NAME/KEY: gene

179 <222> LOCATION: (1)..(1259)

180 <223> OTHER INFORMATION: sequence encoding BHV-1 gD from clone FlgD/Pots207(#79)

182 <400> SEQUENCE: 16

183 ccatggaggg gccgacattg gccgtgtgg ggcgcgtgc cgccgttgcg gtaagcttgc 60

184 ctacacccgc gcccgggtg acggatacg tcgaccgcg ggcgtacccg atgcgcgt 120

185 acaactacac tgaacgctgg cacactaccg ggcccatacc gtcgccttc gcagacggcc 180

186 gcgagcagcc cgtcgagggtg cgctacgcgca cgagcgcggc ggcgtgcgac atgctggcgc 240

187 tgatcgaga cccgcagggtg gggcgacgc tggggaaagc ggtacccgg cacgcgcgcg 300

188 cgtacaacgc cacggtcata tggtacaaga tcgagagcgg gtgcgcggc cggctgtact 360

189 acatggagta caccgagtgc gagcccagga agcactttgg gtactgcgc taccgcacac 420

190 ccccgtttg ggacagcttc ctggcgggtc tcgcctaccc cacggacgcg gagctggac 480

191 tgattatggc ggcgcggcgc cggctcgatc agggccacgtt ccgacgcgcg ctgtacatcg 540

192 acggcacggc cgcctataca gatttcatgg ttgcgtgcc ggcggggac tgctggttct 600

193 cgaaaactcgg cgccgctcgc gggtaacacct ttggcgctgt cttccggcc cgggattacg 660

194 agcaaaaagaa ggttctgcgc ctgacgtatc tcacgcagta ctacccgcag gaggcacaca 720

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195 aggccatagt cgactactgg ttcatgcgcc acggggcggt cgttccgccc tattttgagg 780
 196 agtcgaaggg ctacgagccg ccgcctgccc ccgatgggg ttcccccgcg ccaccggcg 840
 197 acgacgaggc cccaggaccc gaaggggaga ccgaggacgg ggcagccggg cgggagggca 900
 198 acggcggccc cccaggaccc gaaggcgacg gcgagagtca gaccccgaa gccaacggag 960
 199 gcccggaggg cgagccgaaa cccggccca gccccgacgc cgaccggccc gaaggctggc 1020
 200 cgagcctcga agccatcacg caccccccgc cccggccca tacgccccgt cgagctccgg 1080
 201 acgctgtttc gtttctgtt ggtatcgta tcgctgctgc tgctatcgct tgcgttgctg 1140
 202 ctgctgctgc tggtgcctac ttgcgttata ttgcgtgctg tggtgctggt ccgctgccc 1200
 203 gtaaaccgaa aaaactgccc gcttcggta acgttaacta cagtgcctg ccgggttga 1259
 204 <210> SEQ ID NO 17
 205 <211> LENGTH: 418
 206 <212> TYPE: PRT
 207 <213> ORGANISM: Bovine herpesvirus 1
 208 <220> FEATURE:
 209 <221> NAME/KEY: PEPTIDE
 210 <222> LOCATION: (1)...(418)
 211 <223> OTHER INFORMATION: BHV-1gD encoded by clone FlgD/Pots207nco (#79)
 212 <400> SEQUENCE: 17

213	Met	Glu	Gly	Pro	Thr	Leu	Ala	Val	Leu	Gly	Ala	Leu	Leu	Ala	Val	Ala
214	1				5				10					15		
215	Val	Ser	Leu	Pro	Thr	Pro	Ala	Pro	Arg	Val	Thr	Val	Tyr	Val	Asp	Pro
216						20				25				30		
217	Pro	Ala	Tyr	Pro	Met	Pro	Arg	Tyr	Asn	Tyr	Thr	Glu	Arg	Trp	His	Thr
218						35				40				45		
219	Thr	Gly	Pro	Ile	Pro	Ser	Pro	Phe	Ala	Asp	Gly	Arg	Glu	Gln	Pro	Val
220						50			55				60			
221	Glu	Val	Arg	Tyr	Ala	Thr	Ser	Ala	Ala	Ala	Cys	Asp	Met	Leu	Ala	Leu
222						65			70				75			80
223	Ile	Ala	Asp	Pro	Gln	Val	Gly	Arg	Thr	Leu	Trp	Glu	Ala	Val	Arg	Arg
224						85			90				95			
225	His	Ala	Arg	Ala	Tyr	Asn	Ala	Thr	Val	Ile	Trp	Tyr	Lys	Ile	Glu	Ser
226						100			105				110			
227	Gly	Cys	Ala	Arg	Pro	Leu	Tyr	Tyr	Met	Glu	Tyr	Thr	Glu	Cys	Glu	Pro
228						115			120				125			
229	Arg	Lys	His	Phe	Gly	Tyr	Cys	Arg	Tyr	Arg	Thr	Pro	Pro	Phe	Trp	Asp
230						130			135				140			
231	Ser	Phe	Leu	Ala	Gly	Phe	Ala	Tyr	Pro	Thr	Asp	Asp	Glu	Leu	Gly	Leu
232						145			150				155			160
233	Ile	Met	Ala	Ala	Pro	Ala	Arg	Leu	Val	Glu	Gly	Gln	Tyr	Arg	Arg	Ala
234						165			170				175			
235	Leu	Tyr	Ile	Asp	Gly	Thr	Val	Ala	Tyr	Thr	Asp	Phe	Met	Val	Ser	Leu
236						180			185				190			
237	Pro	Ala	Gly	Asp	Cys	Trp	Phe	Ser	Lys	Leu	Gly	Ala	Ala	Arg	Gly	Tyr
238						195			200				205			
239	Thr	Phe	Gly	Ala	Cys	Phe	Pro	Ala	Arg	Asp	Tyr	Glu	Gln	Lys	Lys	Val
240						210			215				220			
241	Leu	Arg	Leu	Thr	Tyr	Leu	Thr	Gln	Tyr	Tyr	Pro	Gln	Glu	Ala	His	Lys
242						225			230				235			240
243	Ala	Ile	Val	Asp	Tyr	Trp	Phe	Met	Arg	His	Gly	Gly	Val	Val	Pro	Pro
244						245			250				255			

Please Note:

Please ensure that all subsequent artificial/unknown sequences have a suitable explanation in the
<220> - <223> section.

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**VERIFICATION SUMMARY
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Line ? Error/Warning

Original Text
